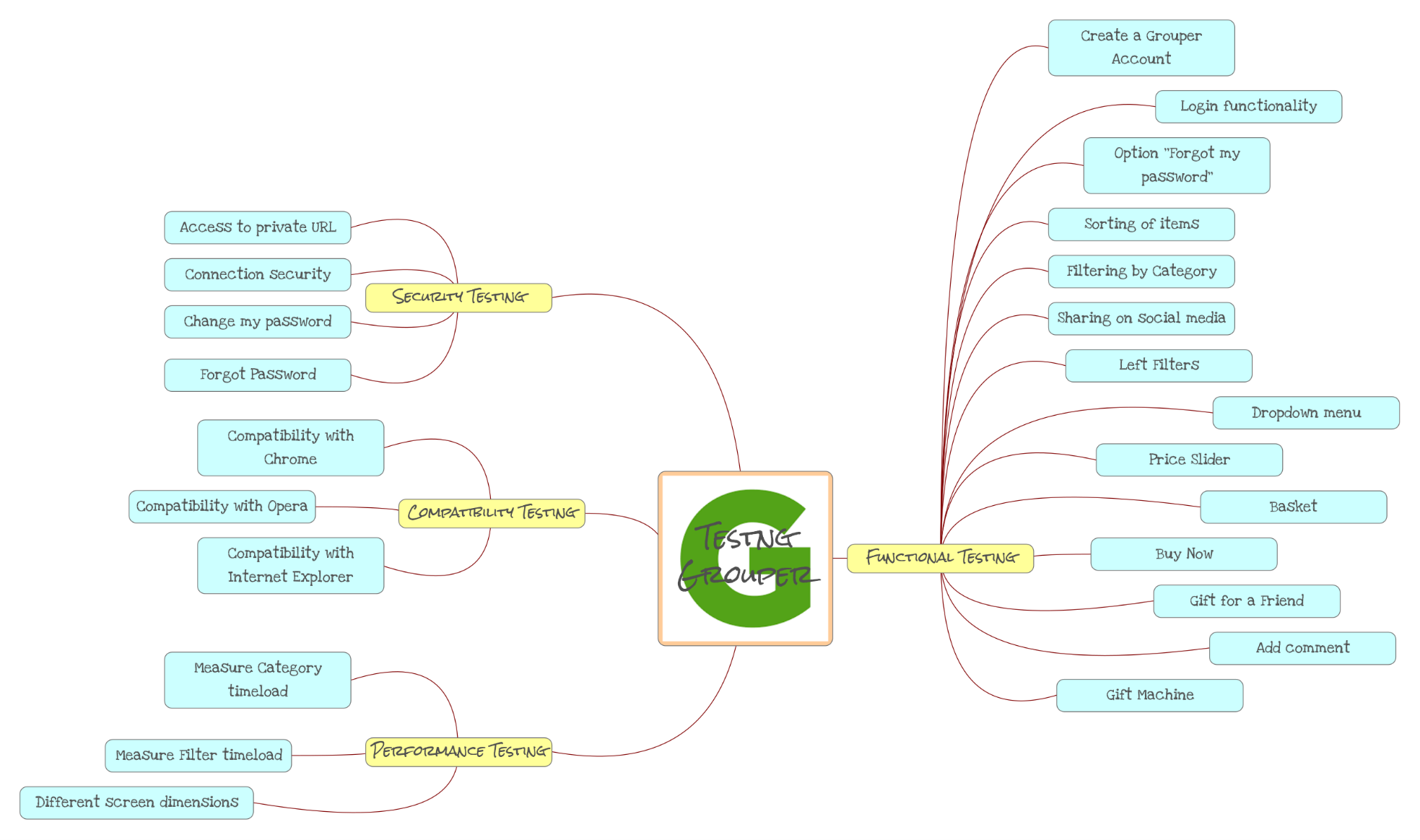
**Mind map – Grouper. Mk**

**I’ve decided to create a mind map for testing** [**https://grouper.mk**](https://grouper.mk)**, which is related with the development of test scenarios, test cases and traceability matrix**



Mind maps are a great place to add items that are too vague to be added to the backlog, but important enough that you don't want to forget them. If somebody says, "we should remember to test that when the feature is ready," or "I'm in the middle of this thing but I noticed something else," add it to the mind map. Get in the habit of reviewing it before your daily scrum, at your periodic retrospectives, or at other prioritization meetings so those good ideas don't get lost in the shuffle.

A mind map is a tool a non-technical person can grasp without being intimidated by the technical jargon. It gives them enough information to start in a particular spot and allows them to learn more as they gather more contextual information.

**Test Scenario**

A **test scenario** is defined as any functionality that can be tested. It is also called *Test Condition* or *Test Possibility*. As a tester, you should put yourself in the end user’s shoes and figure out the real-world scenarios and use cases of the Application Under Test.

**Test Case**

A test case is a set of actions executed to verify a particular feature or functionality of your software application. A Test Case contains test steps, test data, precondition, postcondition developed for specific test scenario to verify any requirement. The test case includes specific variables or conditions, using which a testing engineer can compare expected and actual results to determine whether a software product is functioning as per the requirements of the customer.

According to this, whit the help of internet sources, I wrote a several test scenarios and test cases in aspect of functional testing, performance, security, compatibility, for <https://grouper.mk>

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test CaseID** | **Test Scenario** | **Test steps/ Actions** | **Test Data** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| TC01 | Create a Grouper Account with valid data | 1. First name 2. Last name 3. E-mail address 4. Birthdate 5. Gender 6. Password 7. Confirm password 8. Register | 1. Angelina 2. Stamatoska 3. [Angelinastamatoska@gmail.com](mailto:Angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. 25\*\*\*\*\*F\*\*\*! 7. 25\*\*\*\*\*F\*\*\*! | Proceed to next page, confirmation message is shown | As expected | Pass |
| TC02 | Create a Grouper Account with invalid data | 1. First name field is left blank 2. Last name field is left blank 3. E-mail address 4. Birthdate 5. Gender 6. Password 7. Confirm password 8. Register | 1. Blank 2. Blank 3. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\*\*\*\*\* 7. \*\*\*\*\*\*\*\* | The account cannot be created, the fields First name and Last name are highlighted and warning message is shown | As expected | Pass |
| TC03 | Create a Grouper Account with invalid data | 1. First name 2. Last name 3. E-mail address 4. Birthdate 5. Gender 6. Password 7. Confirm password   different than previous   1. Register | 1. Angelina 2. Stamatoska 3. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\*\*\*\*\* 7. \*\*\*\*\*\*\*\*\*\*\*\*\* | The account cannot be created, field confirm password is highlighted, warning message is shown | As expected | Pass |
| TC04 | Create a Grouper Account with invalid data | 1. First name 2. Last name 3. E-mail address 4. Birthdate 5. Gender 6. Password with 4 characters 7. Confirm password 8. Register | 1. Angelina 2. Stamatoska 3. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\* 7. \*\*\*\* | The account cannot be created, warning message is shown   * There must be at least 6 characters for field password | As Expected | Pass |
| TC05 | Create a Grouper Account with invalid data | 1. First name with 1 character 2. Last name with 1 character 3. E-mail address 4. Birthdate 5. Gender 6. Password 7. Confirm password 8. Register | 1. A 2. S 3. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\*\*\*\*\*\* 7. \*\*\*\*\*\*\*\*\* | The account cannot be created, warning messages are shown:  – ‘’There must be at least two characters for first name’’  – ‘’There must be at least two characters for first name’’ | As expected | Pass |
| TC06 | Create a Grouper Account with invalid data | 1. First name 2. Last name 3. E-mail address 4. Birthdate –future 5. Gender 6. Password 7. Confirm   Password   1. Register | 1. Angelina 2. Stamatoska 3. E-mail address 4. 25.07.2020 5. Password 6. Confirm password 7. Register | The account cannot be created, field birthdate should not accept wrong format | Not as expected, the birthdate is accepted (tuka mi prifati birthdate od idninata) | Fail |
| TC07 | Create a Grouper Account with invalid data | 1. First name 2. Last name 3. E-mail address which not exists 4. Birthdate 5. Gender 6. Password 7. Confirm password 8. Register | 1. Angelina 2. Stamatoska 3. [Angelinastamatoska456857@gmail.com](mailto:Angelinastamatoska456857@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\*\*\*\*\* 7. \*\*\*\*\*\*\*\* | The account cannot be created, the e-mail address does not exists, the field is highlighted and warning message is shown (mozebi gruper ne proveruva dali postoi adresata, no jas si zamisliv taka) | Not as expected, the e-mail address is accepted, verification message is shown | Fail |
| TC08 | Create a Grouper Account with already registered account | 1. First name 2. Last name 3. E-mail address 4. Birthdate 5. Gender 6. Password 7. Confirm Password 8. Register | 1. Angelina 2. Stamatoska 3. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 4. 25.07.1994 5. Female 6. \*\*\*\*\*\*\*\* 7. \*\*\*\*\*\*\*\* | The account cannot be created, warning message is shown | As expected | Pass |
| TC09 | Check Login with valid data | 1. Go to page 2. Enter username 3. Enter password 4. Sign in | 1. <https://grouper.mk> 2. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 3. \*\*\*\*\*\*\* | When a user enters valid data, should be able to access account | As expected | Pass |
| TC10 | Check Login with invalid data | 1. Go to page 2. Enter username 3. Enter wrong password 4. Sign in | 1. <https://grouper.mk> 2. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 3. \*\*\*\*\*\*\*\* | When a user enters a wrong password, should not be able to access account | As expected | Pass |
| TC11 | Check if option Forgot my password works | 1. Go to page 2. Enter username 3. Click forgot my password 4. Enter your e-mail ad-dress 5. Reset Password | 1. <https://grouper.mk> 2. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) 3. Forgot my password 4. angelinastamatoska@gmail.com | When you click on reset my password, an e-mail should be received | As expected | Pass |
| TC12 | Check if search field works | 1. Enter search word 2. Click search button | 1. Beauty | Page shows only products that have word ‘’beauty’’ in it | As expected | Pass |
| TC13 | Check if the sorting of the items works | 1. Enter search word 2. Click search button 3. Sort the items | 1. Medicinal care   3.Sort them by the lowest price | Page shows only products that have word ‘Medicinal care’ in it, and they are sorted by the lowest price | As expected | Pass |
| TC14 | Check if filtering by category works | 1. Click category Travelling | 1. Travelling | When you click category Travelling the travelling offers are shown | As Expected | Pass |
| TC15 | Check if the page can be shared on social media | 1. Choose social media | 1. Facebook | Another page opens, which is redictered to fb post | As expected | Pass |
| TC16 | Check if left filters work | 1. Choose all offers 2. Select country 3. Select type of accommodation 4. Select period | 1. All offers 2. Netherlands 3. All inclusive 4. May | Offers that satisfy the conditions are shown | As expected | Pass |
| TC17 | Check if dropdown menus work | 1. Click on a dropdown menu 2. Choose a category | 1. Services 2. Health | The dropdown menu Services works | As expected | Pass |
| TC18 | Check if the number of offers next to each category are correct | 1. Click menu item 2. Click dropdown item 3. Count all the offers | 1. Products 2. Watches 3. 5 items | Count says there are 5 offers and the results show 5 items | As expected | Pass |
| TC19 | Check if price slider works | 1. Choose all offers 2. Select category 3. Move price slider | 1. All offers 2. Shoes 3. Move slider to fetch results from 1000 to 3000 denars | Results with shoes that have price between 1000 and 3000 denars are shown | As expected | Pass |
| TC20 | Check if price slider works correctly | 1. Choose all offers 2. Select category 3. Manually enter minimum value bigger than maximum 4. Manually enter maximum value lower than minimum | 1. All offers 2. Massage 3. Enter minimum value 1000 4. Enter maximum value 100 | The page doesn’t show results and show a message that no offers are found | As expected | Pass |
| TC21 | Check if an item is added to basket | 1. Choose all offers 2. Select category 3. Select product 4. Click add in Basket 5. Click Basket | 1. All offers 2. Furniture 3. IKEA SLAKT bed | When you click on Basket, the product is shown | As expected | Pass |
| TC22 | Check if you can add another item in basket | 1. Choose all offers 2. Select category 3. Select product 4. Click add in Basket 5. Click Basket | 1. All offers 2. Furniture 3. IKEA BRIMNES wardrobe | When you click on Basket, the two of the products are shown | As expected | Pass |
| TC23 | Check if item is removed from basket | 1. Click on Basket 2. Click delete on product | 1. Basket 2. Delete IKEA SLAKT bed | When you click delete on the product, a message is shown ‘’Your basket is empty, please add a product’’ | As expected | Pass |
| TC24 | Check if option Buy Now works | 1. Choose from dropdown menu 2. Select category 3. Select product 4. Click buy now 5. Complete buying 6. Pay | 1. Services 2. Education 3. 40 % English course for conversation + certificate 4. Buy now 5. Payment | When you click Buy now, you should be able to access to paying | As expected | Pass |
| TC25 | Check if option Gift for a friend, sends e-mail notification | 1. Choose from dropdown menu 2. Select Product 3. Click buy now 4. Mark Gift for a friend 5. Complete buying 6. Pay | 1. Gift Cards 2. Grouper Gift Card worth 3000 denars 3. Buy now | When you complete paying, an e-mail is sent to a friend | As expected | Pass |
| TC26 | Check if add comment section works | 1. Choose from dropdown menu 2. Select category 3. Select product 4. Add a comment | 1. Travelling 2. Germany 3. 28 % BB for two in Berlin | When you add a comment, it’s shown below the product | As expected | Pass |
| TC27 | Check if Gift Machine works without a try | 1. Click on Gift Machine 2. Try | 1. Gift Machine | When you have 0 tries, you won’t be able to try again | As expected | Pass |
| TC28 | Measuring time when you choose a category | 1. Choose a category | 1. All offers | The category is opened within 5 seconds | Not as expected, the measured time was 10.63 seconds | Fail |
| TC29 | Measuring time when you choose a filter | 1. Choose a category 2. Choose a filter | 1. All offers 2. Food | The filter is opened within 5 seconds | Not as expected, the measured time was 6.80 seconds | Fail |
| TC30 | Check the page browser compatibility | 1. Open the page in Chrome 2. Open the page in Opera 3. Open the page in Internet Explorer | 1. https://grouper.mk | The page should be compatible with Chrome, Opera, Internet Explorer | As expected | Pass |
| TC31 | Different screen dimensions | 1. Go to page on web browser 2. Go to page on mobile device | 1. Chrome 2. Iphone - Safari | Readability and scalabiity | As expected | Pass |
| TC32 | Check if pages should be accessed only by logged in user are available to public | 1. Access to private url | 1. <https://grouper.mk/users/my-profile> | Be redirected to a login page | As expected | Pass |
| TC33 | Check if the connection is secure | 1. Check if the site has a secure connection | 1. Check if https | This site includes logging in and paying with your credit card it needs a secure connection | Ac expected | Pass |
| TC34 | Check if Change my password option is secure | 1. Go to my profile 2. Click on Change password | 1. My profile 2. Change password | You should be able to enter your old password | As expected | Pass |
| TC35 | Check if Forgot password option is secure | 1. Go to login page 2. Click forgot password 3. Enter e-mail address 4. Reset password | 1. <https://grouper.mk> 2. [angelinastamatoska@gmail.com](mailto:angelinastamatoska@gmail.com) | You should receive an email with link to reset your password, and not your password in plain text | As expected | Pass |

**Traceability Matrix**

**Requirement Traceability Matrix (RTM)** is a document that maps and traces user requirement with test cases. It captures all requirements proposed by the client and requirement traceability in a single document, delivered at the conclusion of the Software devlopement life cycle.

Parameters:

* Requirement ID
* Requirement Type and Description
* Test Cases with Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Project Name** | **Grouper** |  |  |  |  |  |  |
| **Prepared By** | **AngelinaS** |  |  |  |  |  |  |
| **Executed By** | **AngelinaS** |  |  |  |  |  |  |
| **Req ID** | **Req Description** | **TC ID** | **TC Desc** | **Test Execution** | **Defects** | **Defect status** | **Req.Coverage** |
| **Req01** |  | **TC01** | **Create account with valid data** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC02** | **Create account with fields left blank** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC03** | **Create account with not matching passwords** | **Pass** | **No** | **N/A** | **Partial** |
|  | **Create a Grouper Account** | **TC04** | **Create account with a password with 4 ch** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC05** | **Create account with 1 ch for Firstname and Lastname** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC06** | **Create account with birthdate 6 months later** | **Pass** | **Yes** | **Test OK** | **Partial** |
|  |  | **TC07** | **Create account with e-mail address that doesn’t exist** | **Pass** | **Yes** | **Test OK** | **Partial** |
|  |  | **TC08** | **Create account with already registered e-mail address** | **Pass** | **No** | **N/A** | **Partial** |
|  | **Login functionality** | **TC09** | **Try to login on page, with valid data** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ2** |  | **TC10** | **Try to login on page, with wrong password** | **Pass** | **No** | **N/A** | **Partial** |
|  | **Forgot my password** | **TC11** | **Check if Forgot my password option works, and e-mail is received** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ3** |  | **TC35** | **Check if you receive an e-mail with link to reset your password, not your password in plain text** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ4** | **Search field** | **TC12** | **Enter a search word and click the search to check if search button works** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ05** | **Sorting of the items** | **TC13** | **Try to sort the items from the chosen category** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ06** | **Filtering by category** | **TC14** | **Check if filtering by category is available** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ07** | **Page sharing on social media** | **TC15** | **Check if the page can be shared on social media** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ08** | **Left filters** | **TC16** | **Check if left filters work by selecting them** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ09** | **Dropdown menu** | **TC17** | **Check if dropdown menus works by clicking on them** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ10** | **Number of offers** | **TC18** | **Check if number of offers next to each category is correctly counted** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ11** | **Price Slider** | **TC19** | **Check if price slider works, by moving him** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC20** | **Check if price slider shows any product, when the minimum price is bigger than maximum, and reverse** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC21** | **Check if an item can be added to basket** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ12** | **Basket** | **TC22** | **Check If you can add more than 1 items in basket** | **Pass** | **No** | **N/A** | **Partial** |
|  |  | **TC23** | **Check if you can remove an item from the basket** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ13** | **Buy now** | **TC24** | **Check if option buy now works** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ14** | **Gift for a Friend** | **TC25** | **Check if option Gift for a friend, sends an e-mail notification** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ15** | **Add comment section** | **TC26** | **Check if you can add a comment bellow a product** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ16** | **Gift machine** | **TC27** | **Check if Gift machine works with 0 tries** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ17** | **Page response time** | **TC28** | **Check if the page response when you choose a category is within 5 seconds** | **Fail** | **Yes** | **Test OK** | **Partial** |
|  |  | **TC29** | **Check if page response when you choose a filter is within 5 seconds** | **Fail** | **Yes** | **Test OK** | **Partial** |
| **RQ19** | **Page Compatibility** | **TC30** | **Check the page browser compatibility by using Chrome, Opera and Internet Explorer** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ20** | **User security** | **TC31** | **Check if pages should be accessed only by logged in user** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ21** | **Connection security** | **TC32** | **Check if the connection is secure** | **Pass** | **No** | **N/A** | **Partial** |
| **RQ22** | **Password security** | **TC33** | **Check if the option change my password Is secure, you should be able to enter your old password** | **Pass** | **No** | **N/A** | **Partial** |

**Користена литература:**

<https://www.softwaretestinghelp.com/mind-mapping-software-testing/>

<https://www.ministryoftesting.com/dojo/lessons/mind-maps-made-easy>

<https://www.mindmeister.com/92927976/software-testing>

<https://www.softwaretestinghelp.com/mind-mapping-software-testing/>

<https://www.guru99.com/test-scenario.html>

<https://www.guru99.com/test-case.html>

<https://www.softwaretestinghelp.com/web-application-testing/>

<https://www.softwaretestinghelp.com/web-application-testing/>

<https://www.softwaretestinghelp.com/how-to-test-application-security-web-and-desktop-application-security-testing-techniques/>

<https://www.keycdn.com/blog/performance-testing>

<https://www.guru99.com/compatibility-testing.html>

<https://stackify.com/fundamentals-web-application-performance-testing/>

<https://www.guru99.com/web-application-testing.html>

<https://www.guru99.com/traceability-matrix.html>

<https://www.softwaretestinghelp.com/requirements-traceability-matrix/>